

1/19

## FIGURES

FIG. 1

AC CCACTTCCGACTTTCTCGAATTCCTTCCTTCCGCTTCGAGTCGAAACCCGAAAGAA 50  
 AC TCAAACTCGA GAACTAACGAAAGAGGCGACAAATTGATGTTTCAGGGTTCTTGcc 120  
 ATTTTCATCCTTGTACAACTGAGTTCCGAAATCGAAGCTGAGAGCTGTACCGAAAGA 180  
 M E A N O A E H S S T D K  
 X D G R E H I X X K S I X H C T M E S T W  
 MAAS-domain  
 CAACCTTGCAACGCCGAAACGGATTCGTTAGGAGGCTAGAATTCCTGTTCTTGC 300  
 T F C K M S N G L L K A E L S V L E  
 TAATCTTAACTTCTCTTAACTGCTTTCTCCACCCCTGGcccccctatGAGTATGCTAA 350  
 D A E Y I D I Y E S T R S B L E E A H  
 CAACACCTTAACTAACACAACTGAGCTAACAAAGAAAGCTGAACTGGGGG 420  
 N S Y R A T I D R T N K A C A P D E T G C-terminal  
 X G A T C C A T T C A G G A T T C A G A T T C A G G A T T C A G G A T T C A G G A 480  
 P S V S R A N T D T Y Q C R A M K T R R  
 ACAGATCCGACAAATTCAAGATTCAGAACGCAATAACTGGGGGATCCCTTAGCACCT 540  
 Q I P E T C N S M R H I I D S H S L S T L  
 GLAAGTCGAAGGACTGAAACCTGAAAGGAAATGAGGAAAGGAAAGGAAATTAAC 500  
 X V H E L H N S E G R D E E G I S P I R  
 ATCCAAAGAACTGAAATTCCTTCTGAAATCGAAATTCGAAATGAGGGAGAGCTGA 550  
 D K N H E T E T E E E F N Q V R E P E  
 CTGCAACACCAACAAATGAGTTGGGGAACTTCCGAAAGGAAAGGGAGAGCTGA 720  
 E Q H H N N P D B A K I A E S E R S G Q  
 CGAGGAAACAAACACATATGAGTTGGGGAACTTCCGAAAGGAAAGGGAGAGCTGA 780  
 Q Q G T H M I P S T S Y D R S M P S R S  
 CTATGAGAACTTCTTCTGAACTGAGATCTGAAAGGAAATGAAACATTAACCTGGAA 840  
 V D P H T F P V I L H S N H H H X P E Q  
 AAGGCAAAAGGAGCTGAAACTTCTGAAAGGCTGGAACTGCCGTCATGTTCTGAA 900  
 Q Q T A H C D V  
 GAGGAAACAAACACATATGAGTTGGGGAACTTCCGAAAGGAAAGGGAGAGCTGA 960  
 DA TOCCGAAACACATTTGGCGAAAGGCTGAGATCTGAGAACTGAAAGGAAAGGG 1020  
 ATTCTGTGAGACAACTTCTGAAAGGCTGGAACTGCCGTCATGTTCTGAA 1065

2/19

## FIG. 2

GCAATTCTCCTCCGTTGCCAAGTGCAACCCAAATAGAAAAACTCAAAGTCAAGAACT 60  
 AGCTAACAGAGAAAACCACAATTCAATTTGGAGGGTTTGCCATTTTCATCCTT 120  
 GCAACAATGGAGTTCCCAATCAAGCACCGAGAGCTCCTCCAGAAAAATTGGGAAGG 180  
 M E F P N Q A P E S S S Q K K L [G R] MADS-BOX  
 GGCAAAATTGAGATTAAGCGGATCGAAAACACTACAAATCGACAAGTTACCTTCTGCAAA 240  
 [G K I E I K R I E N T T N R Q V T F C K]  
 CGCCGCAACGGATTGCTTAAGAAAGCCTATGAATTGTCTGTCTTGATGCTGAAGTT 300  
 [R R N G L L K K A Y E L S V L C D A E V]  
 GCTCTTATCGTGTCTCCAACCGTGGCCGCCTCTATGAGTATGCTAACAAACAGTGTAGA 360  
 [A L I V F S N R G R L Y E Y A N N S V R]  
 GCAACAATCGACAGGTACAAAAAGCATACGCTGATCCTACGAACAGTGGATCTGTTCA 420  
 [A T I D R Y K K A Y A D P T N S G S V S] K-domain  
 GAAGCCAACACTCAGTTTATCAGCAGGAAGCATTCAAACCTGCGAAGACAGATCCGAGAA 480  
 [E A N T Q F Y Q Q E A S K L R R Q I R E]  
 ATTCAGAATTCAAACAGGCATAACTGGGTGAAGCTCTTAGCTCCTTGAACGCCAAGGAA 540  
 [I Q N S N R H I L G E A L S S L N A K E]  
 CTGAAGAACCTAGAAGGAAGATTGGAGAAAGGAATCAGCAGAATAAGATCCAAAAAGAAAT 600  
 [L K M L E G R L E K G I S R I R S K K N]  
 GAAATGCTGTTCTGAAATCGAATTCAATGCAAAAAAGGGAGACCGAGCTGCAACACAC 660  
 [E M L F S E I E F M Q K R E T E L Q H H]  
 AACAAATTCTGAGAGCAAAAGATAGCTGAAACCGAGAGGGAGAGCAGCAGCATAACAC 720  
 [N N F L R A K I A E N E R E E Q Q H T H]  
 ATGATGCCGGAACTTCCTACGATCAGTCATGCCATTGCATTCTATGACAGGAACCTC 780  
 [M M P G T S Y D Q S M P S H S Y D R N F]  
 CTCCCAGCGGTGATCTGGAGTCCAACAATAACCATTACCCCTCACCAAGTCCAGACAGCT 840  
 [L P A V I L E S N N N H Y P H Q V Q T A]  
 CTCCAACTTGTTGAAATGCTGGACTGCCGTCTGAT 876  
 [L Q L V]

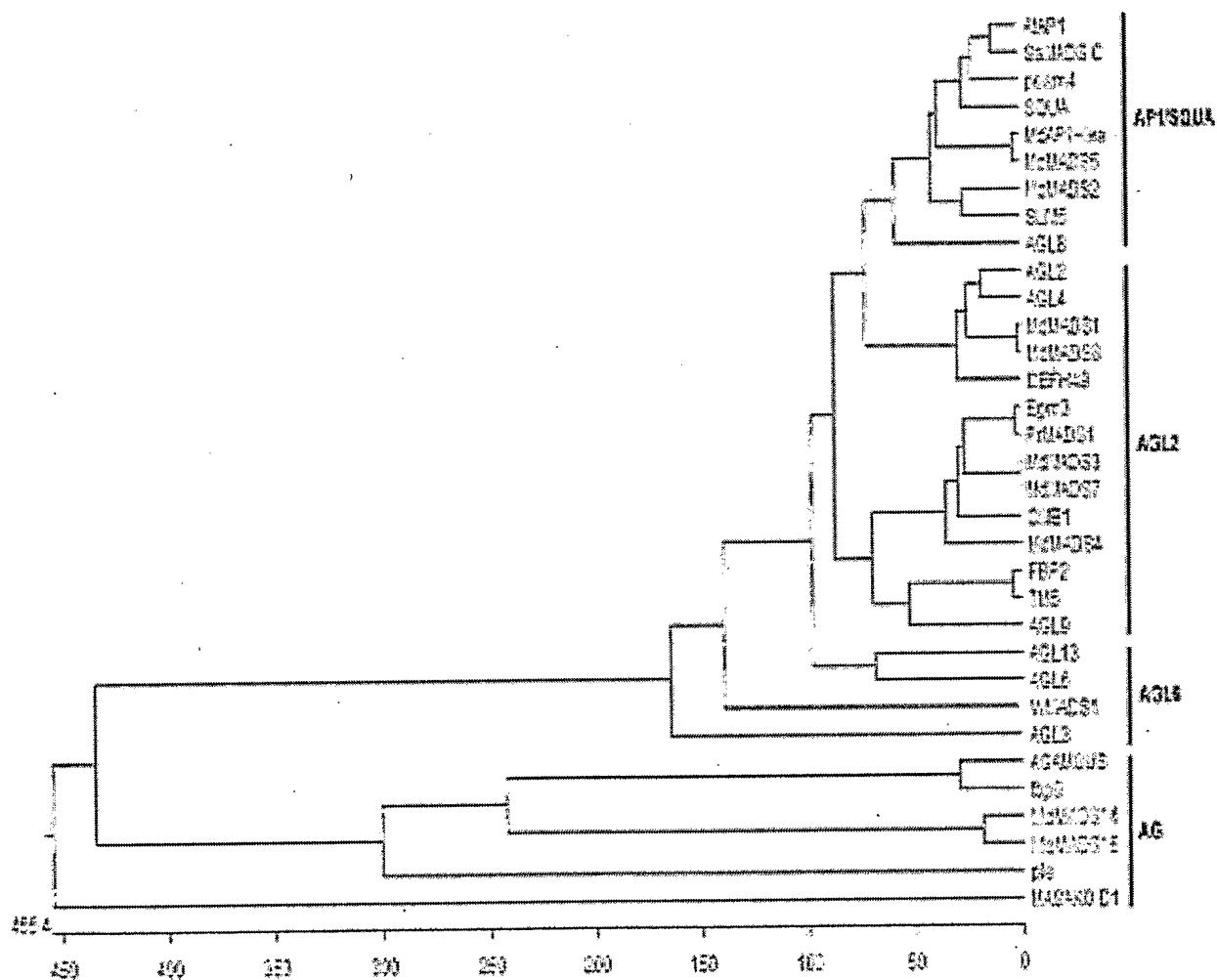
3/19

## FIG. 3

1	M E F A N Q A P E S S T Q K K L G R G K I E I K R I E N T T	MdMADS14
1	M E F P N Q A P E S S S Q K K L G R G K I E I K R I E N T T	MdMADS16
31	N R Q V T F C K R R N G L L K K A Y E L S V L C D A E V A L	MdMADS14
31	N R Q V T F C K R R N G L L K K A Y E L S V L C D A E V A L	MdMADS16
61	I V F S T R G R L Y E Y A N N S V R A T I D R Y K K A C A D	MdMADS14
61	I V F S M R G R L Y E Y A N N S V R A T I D R Y K K A Y A D	MdMADS16
91	S T D G G S V S E A N T Q F Y Q Q E A S K L R R Q I R E I Q	MdMADS14
91	P T N S G S V S E A N T Q F Y Q Q E A S K L R R Q I R E I Q	MdMADS16
121	N S N R H I L G E S L S T L K V K E L K N L E G R L E K G I	MdMADS14
121	N S N R H I L G E A L S S L N A K E L K N L E G R L E K G I	MdMADS16
151	S R I R S K K N E I L F S E I E F M Q K R E T E L Q H H N N	MdMADS14
151	S R I R S K K N E M L F S E I E F M Q K R E T E L Q H H N N	MdMADS16
181	F L R A K I A E S E R E Q Q Q Q Q T H M I P G T S Y D P S M	MdMADS14
181	F L R A K I A E W E R E E Q Q H - T H M M P G T S Y D Q S M	MdMADS16
211	P S N S Y D R N F F P - V I L E S N N N H Y P R Q G Q T A L	MdMADS14
210	P S H S Y D R N F L P A V I L E S N N N H Y P H Q V Q T A L	MdMADS16
240	Q L V (100%)	MdMADS14
240	Q L V (88.4%)	MdMADS16

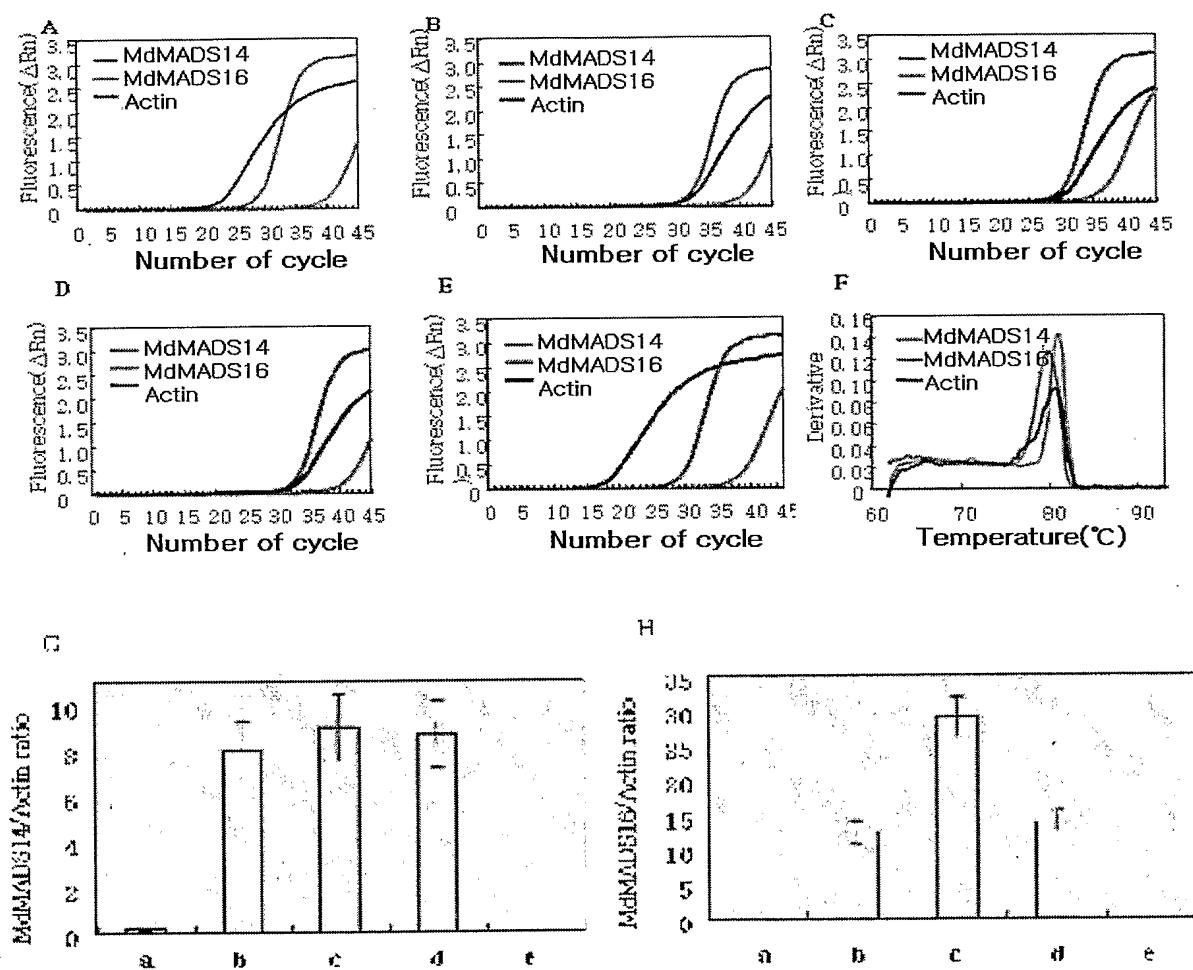
4 / 19

FIG. 4



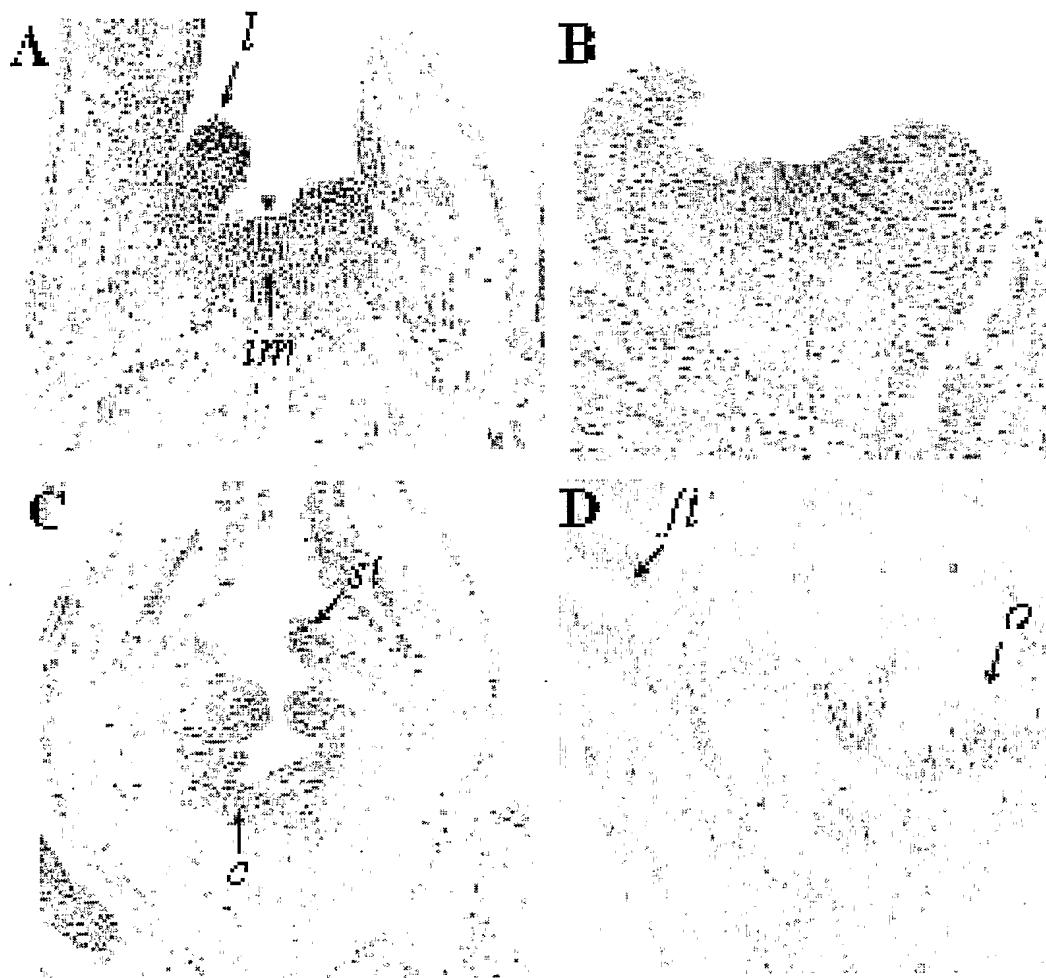
5/19

FIG. 5



6/19

FIG. 6



7/19

FIG. 7

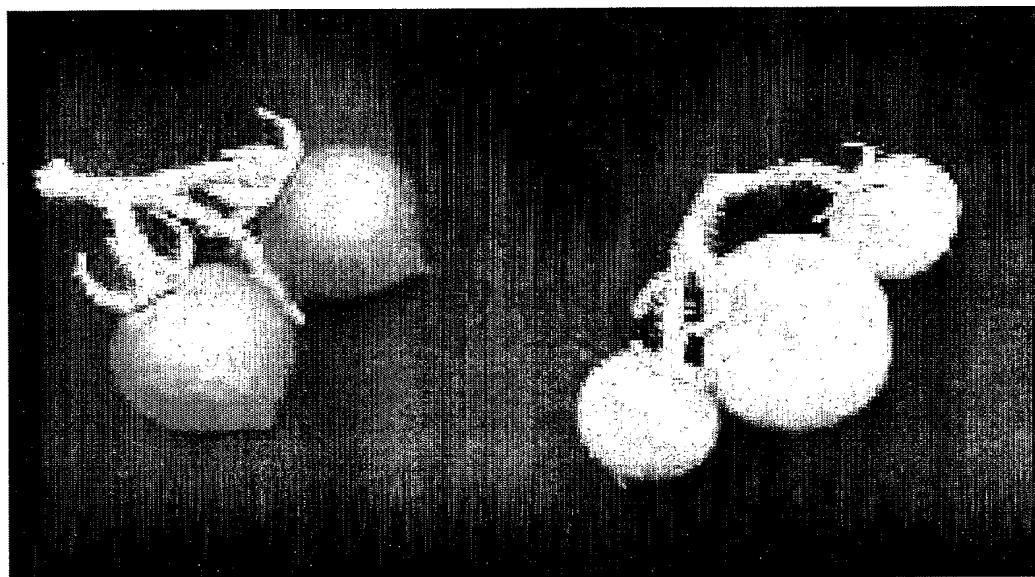
**a      b      c      d**

8/19

FIG. 8

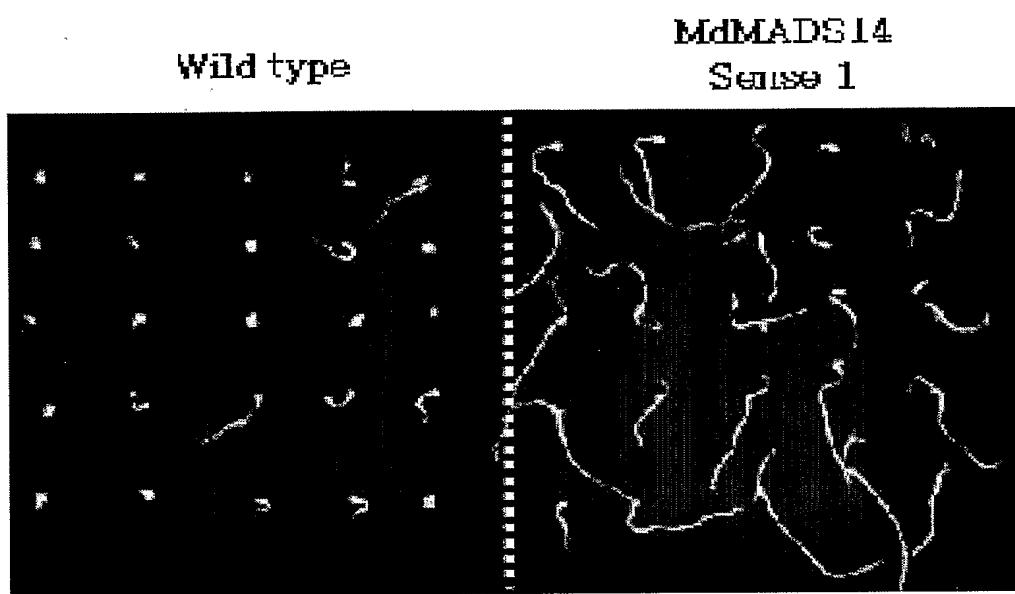
Wild type

MdMADS14  
Sense I



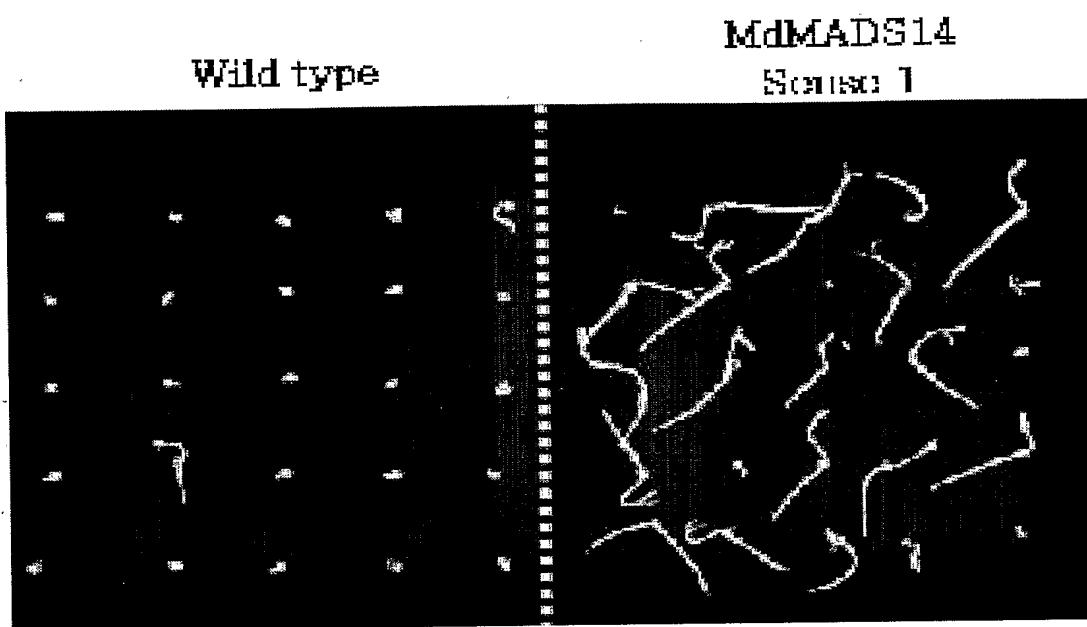
9 / 19

FIG. 9



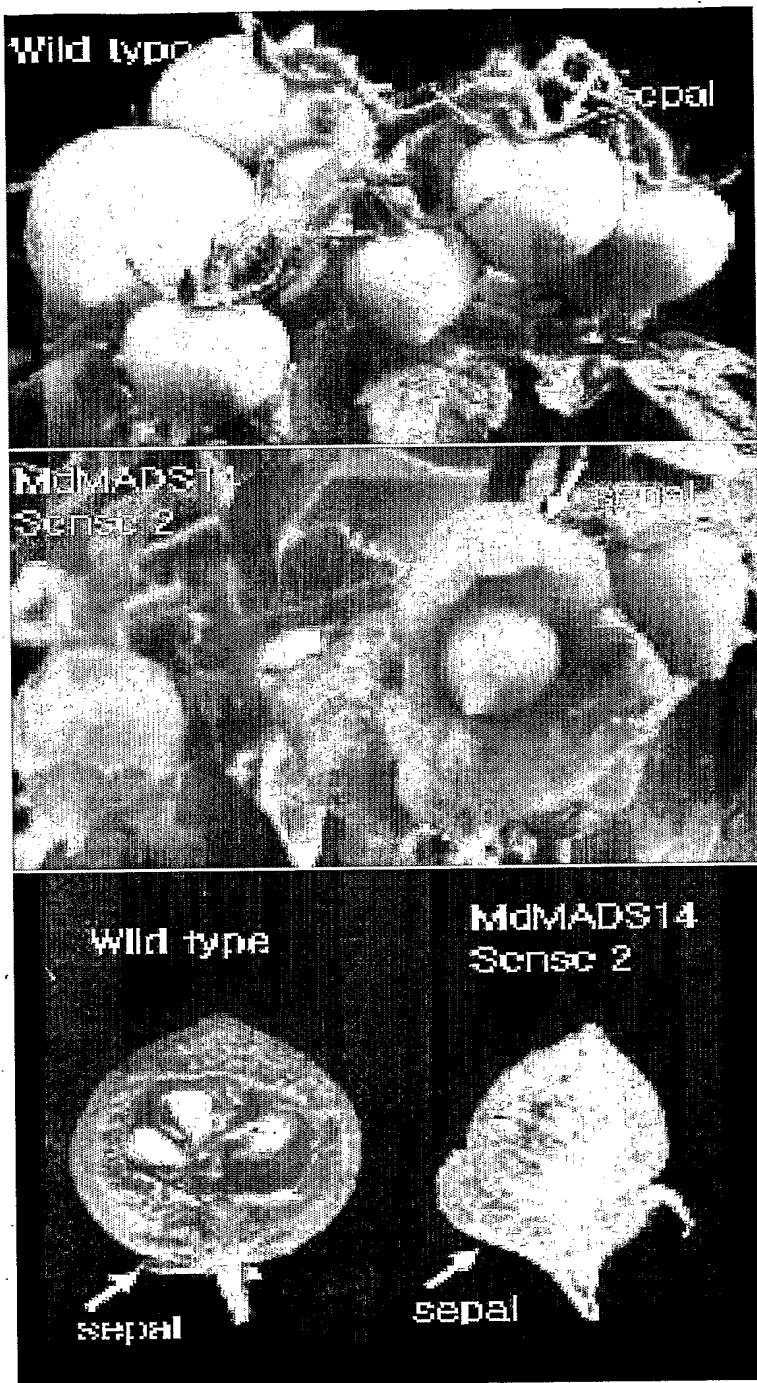
10/19

FIG. 10



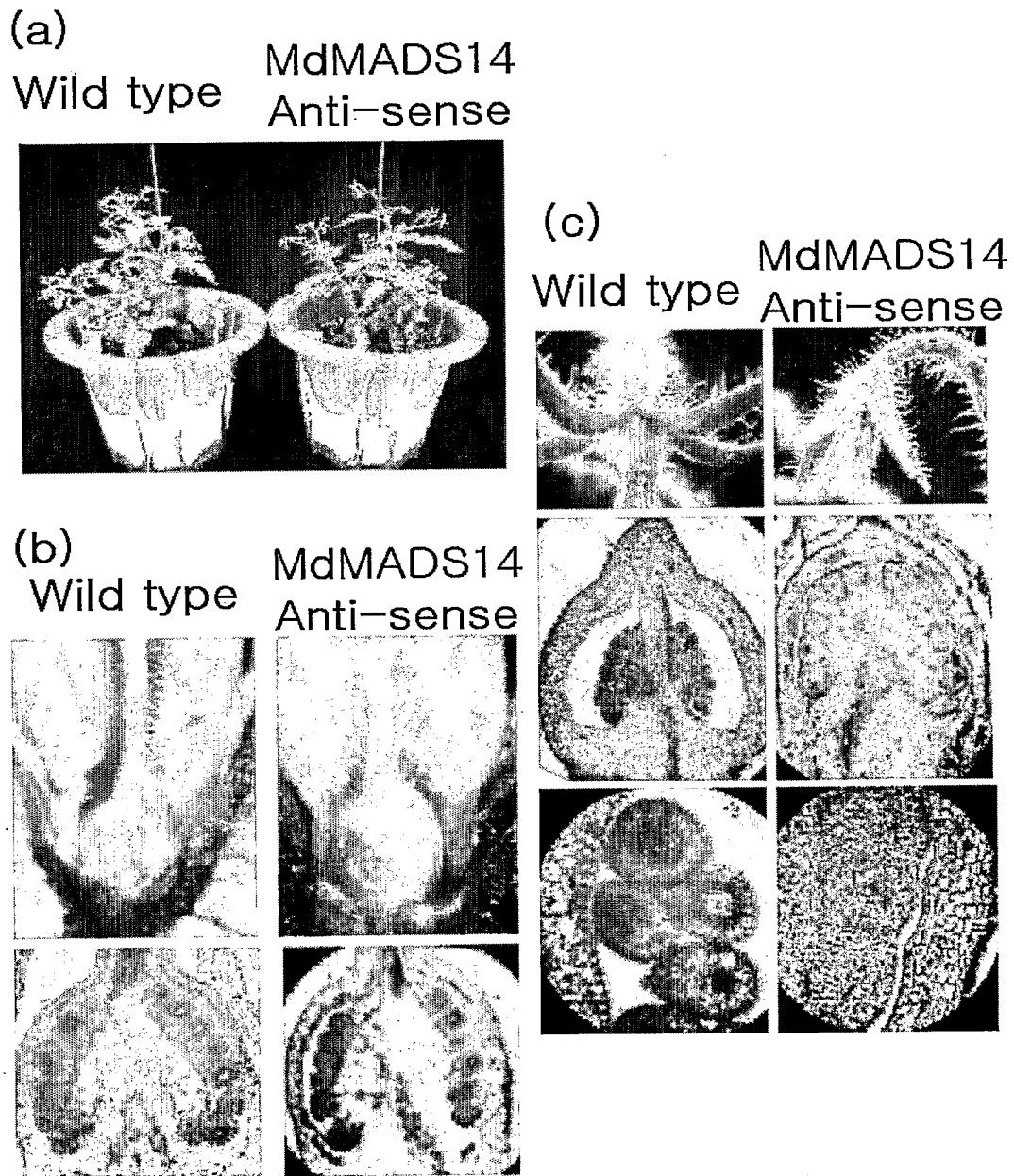
11/19

FIG. 11



12/19

FIG. 12



13/19

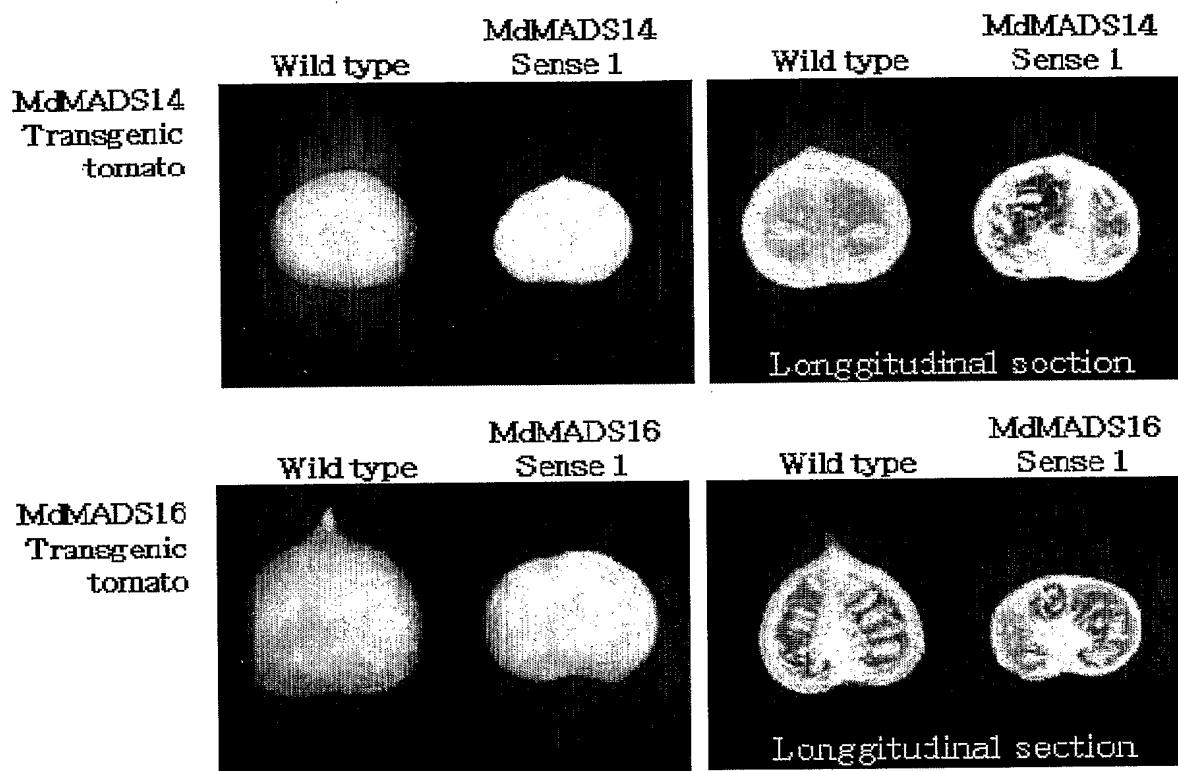
FIG. 13

a      b      c      d



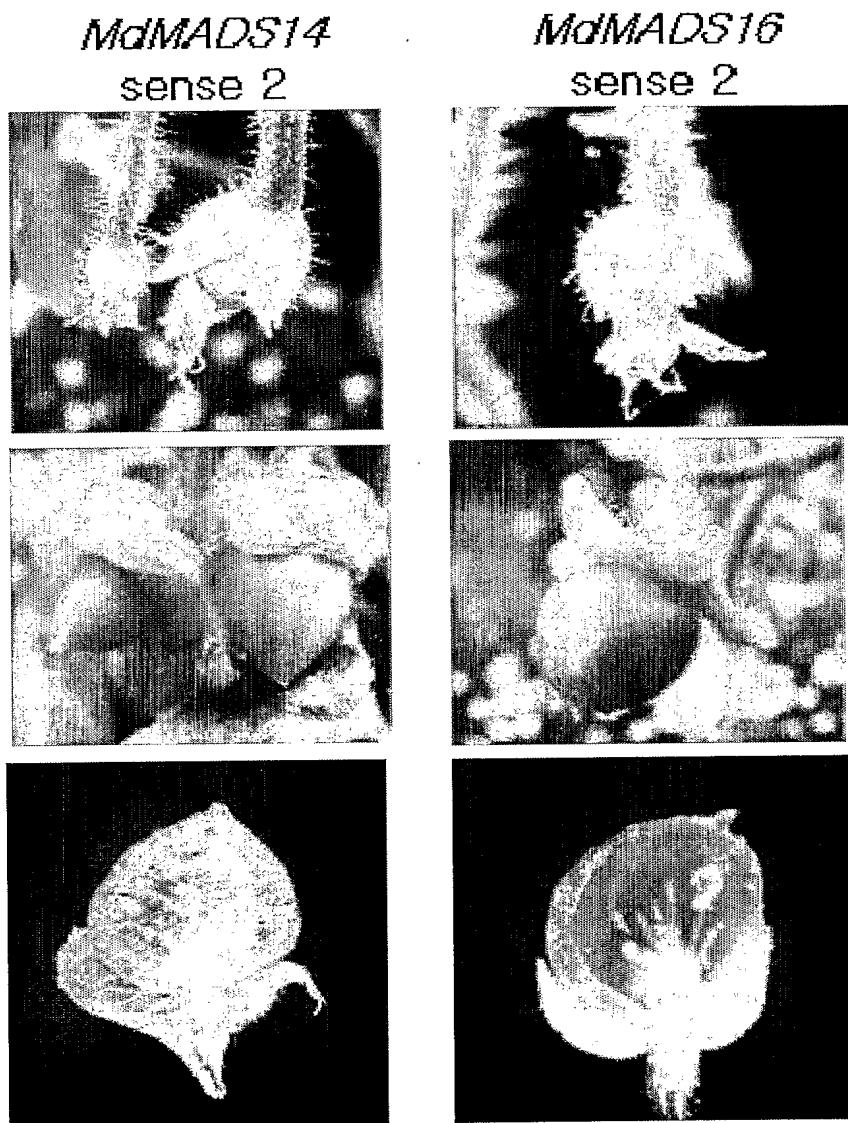
14/19

FIG. 14



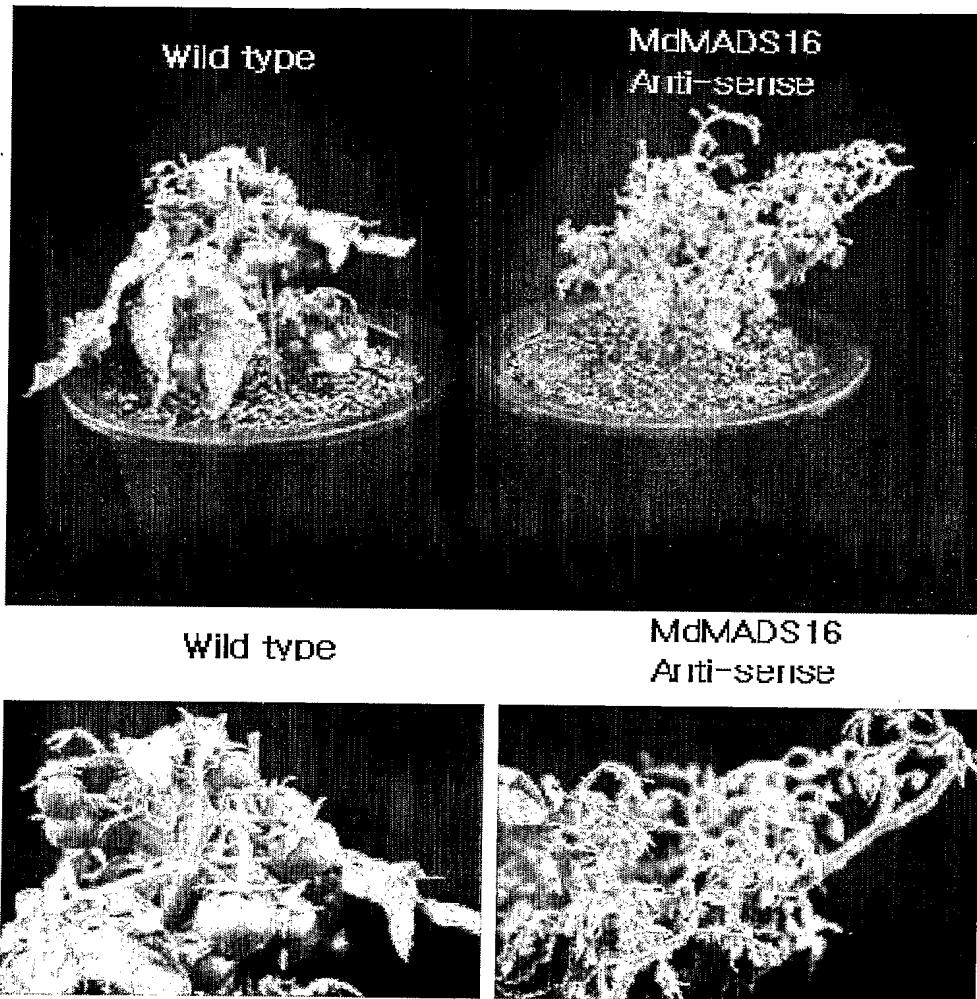
15/19

FIG. 15



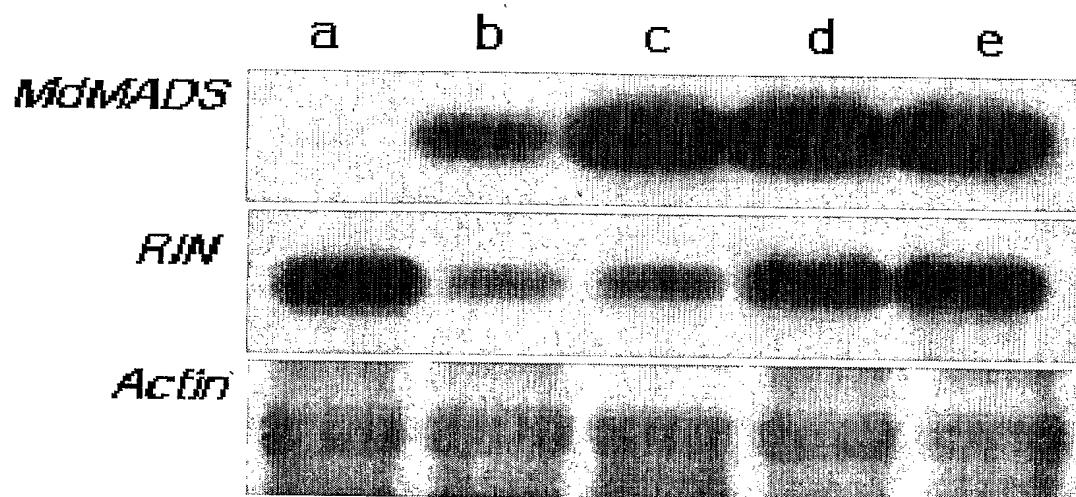
16/19

FIG. 16



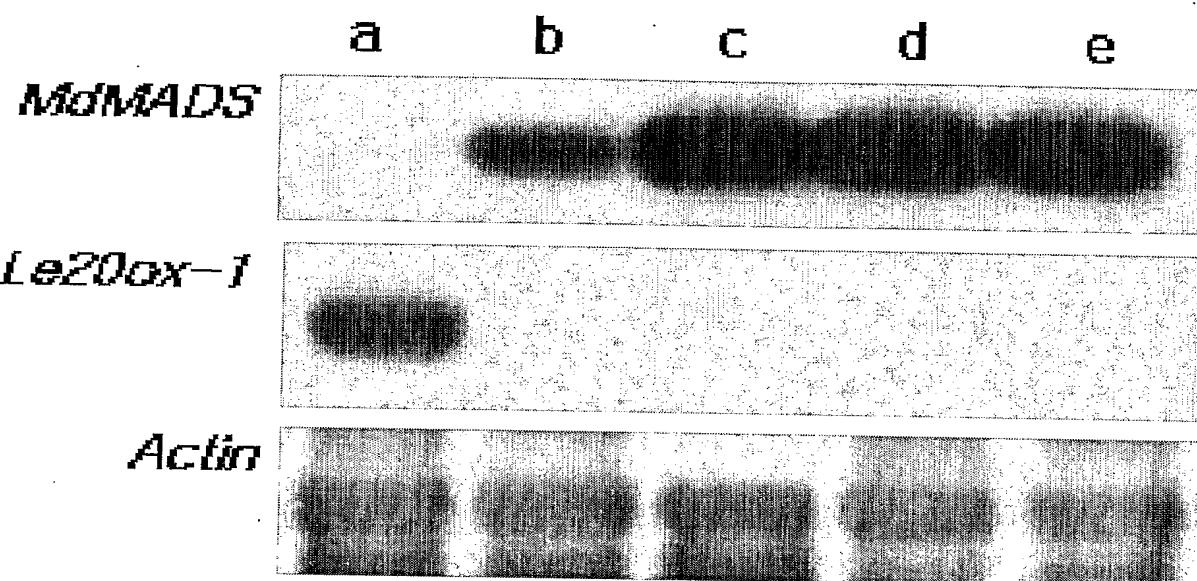
17/19

FIG. 17



18/19

FIG. 18



19/19

FIG. 19

